Sub	ostitute for form 1449/PTO			Complete if Known		
				Application Number	10/593,502	
II.	NFORMATION	1 DI	SCLOSURE	Filing Date	November 9, 2007	
l s	TATEMENT E	3Y /	APPLICANT	First Named Inventor	John A. Porco, Jr.	
				Art Unit	1625	
	(Use as many sh	eets as	s neces sary)	Examiner Name	Chandrakumar, N.	
Sheet	1	of	5	Attorney Docket Number	0079571-0110	

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
		Number-Kind Code <sup>2</sup> ( if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
A1		US 6,099,751	08-08-2000	MEYER et al.				
	A2	US 5,169,943	12-08-1992	LUBINEAU et al.				
	А3	US 2008-0177093 A1	07-24-2008	JONES et al.				
	A4	US 2009-0299081 A1	12-03-2009	PORCO				
	A5	60/802,560	05-22-2006	PORCO				
	A6	60/555,448	03-23-2004	PORCO et al.				
	A7	60/612,009	09-22-2004	PORCO et al.				

		FORE	IGN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>2</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
	В1	WO-2005/092876	10-06-2005	TRUSTEES OF BOSTON UNIVERSITY	1,4,7	
	B2	WO 2007/139749	12-06-2007	TRUSTEES OF BOSTON UNIVERSITY		
	ВЗ					
	B4					
	B5					

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the ite (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
	C1	ADEMBRI <i>et al.</i> , "Influence of the solvent on the stereoselectivity of 1,3-dipolar cycloaddition of nitrile oxides on several 4-substituted 2-cyclopentenones," <i>J. Chem. Res.</i> 2003(3):126-127 ( <b>2003</b> ).				
	C2	ALTAVA <i>et al.</i> , "On the origin of changes in topicity observed in Diels-Alder reactions catalyzed by Ti-TADDOLates," <i>Tetrahedron: Asymmetry</i> 11(24):4885-4893 ( <b>2000</b> ).				
	C3	BADER <i>et al.</i> , "Proton transfer in 3-hydroxylavone studied by high-resolution 10 K laser-excited Shpol'skii spectroscopy," <i>J. Phys. Chem. A.</i> 106:2844-2849 ( <b>2002</b> )				
	C4	BAUER et al., "Catalytic enantioselective reactions driven by photoinduced electron transfer," Nature 436:1139-1140 (2005).				

Examiner Signature	Date Considered	

Complete if Known Substitute for form 1449/PTO Application Number 10/593,502 **INFORMATION DISCLOSURE** Filing Date November 9, 2007 **STATEMENT BY APPLICANT** First Named Inventor John A. Porco, Jr. Art Unit 1625 (Use as many sheets as necessary) Examiner Name Chandrakumar, N. Sheet 2 of 5 0079571-0110 Attorney Docket Number

	C5	BECK et al., "Grossansätze zur Herstellung von α,α,α <sup>1</sup> ,α <sup>1</sup> -Tetraaryl-1,3-dioxolan-4,5-dimethanolen (TADDOLe): Nützliche Hilfsstoffe für die EPC-Synthese und ihre Struktur im Festkörper," <i>Chimia</i> 45:238-244 ( <b>1991</b> ).						
	C6	BHASKER GONDI et al., "Hydrogen Bond Catalyzed Enantioselective Vinylogous Mukaiyama Aldol Reaction," Org. Lett. 7(25):5657-5660 (2005).						
	C <b>7</b>	BRADER et al., "Bisamides, lignans, triterpenes, and insecticidal Cyclopenta[b]benzofurans from Aglaia species," J. Nat. Prod. 61:1482-1490 (1998).						
	C8							
	C9	CHAIDIR et al., "New Insecticidal Rocaglamide Derivatives from Flowers of Aglaia Duperreana (Meliaceae)," Phytochemistry 52:837-842 (1999).						
	C10	CUENCA <i>et al.</i> , "Highly enantioselective protonation of the 3,4-dihydro-2-methylnaphthalen-1(2H)-one Li-enolate by TADDOLs," <i>Helv. Chim. Acta</i> 83:3153-3162 ( <b>2000</b> ).						
	C11	CUI et al., "Novel Cytotoxic 1H-Cyclopenta[b]Benzofuran Lignans from Aglaia Elliptica," Tetrahedron 53:17625-17632 (1997).						
	C12	DAS et al., "A critical role for NF-kappa B in GATA3 expression and TH2 differentiation in allergic airway inflammation," Nature Immunol. 2:45-50 (2001).						
	C13	DEMCHENKO, "Elimination of the Hydrogen Bonding Effect on the Solvatochromism of 3-Hydrxyflavones" <i>J. Phys. Chem. A</i> 107:4211-4216 (2003).						
	C14 DIEDRICHS <i>et al.</i> , "A Highly Efficient Synthesis of Rocaglaols by a Novel α-Arylati of Ketones," <i>Eur J. Org. Chem.</i> 9:1731-1735 (2005).							
	C15 DUMONTET <i>et al.</i> , "New nitrogenous and aromatic derivatives from Aglaia argentwa and A. forbesii," <i>Tetrahedron</i> 52: 6931-6942 (1996).							
	C16	GAGLIARDO et al., "Persistent Activation of Nuclear Factor-{kappa}B Signaling Pathway in Severe Uncontrolled Asthma," Am. J. Respir. Crit. Care Med. 168:1190-1198 (2003).						
	C17 GARG AND AGGARWAL, "Nuclear transcription factor-κB as a target for cancer drug development," <i>Leukemia</i> 16:1053-1056 ( <b>2002</b> ).							
	C18 GERARD et al., "A Biomimetic Approach to the Rocaglamides Employing Photogeneration of Oxidopyryliums Derived from 3-Hydroxyflavones," J. Am. Chem. Soc. 126:13620-13621 (2004).							
	C19	GERARD et al., "Enantioselective Photocycloaddition Mediated by Chiral Brønsted Acids: Asymmetric Synthesis of the Rocaglamides," J. Am. Chem. Soc. 128:7754-7755 (2006).						
	C20	LE GOURRIERECet al., "Excited State Intramolecular Proton Transfer Part 2: ESIPT to Oxygen" <i>Prog. React. Kinet.</i> 19:211-275 (1994).						
	C21 GREENE et al., "Decarbalkoxylation of [beta]-keto esters-a new mild procedure,"  Tetrahedron Lett. 2707-2708 (1976).							
	C22	GROSCH et al., "'Highly Enantioselective Diels-Alder Reactions of a Photochemically Generated o-Quinodimethane and Olefins," Angew. Chem., Int. Ed., 42:3693-3696 (2003).						
	C23	GUSSREGEN et al., "Insecticidal rocaglamide derivatives from Aglaia Duppereana," Phytochemistry 44:1455-1461 (1997).						
Examiner Signature		Date Considered						

Complete if Known Substitute for form 1449/PTO Application Number 10/593,502 **INFORMATION DISCLOSURE** Filing Date November 9, 2007 **STATEMENT BY APPLICANT** First Named Inventor John A. Porco, Jr. Art Unit 1625 (Use as many sheets as necessary) Examiner Name Chandrakumar, N. Sheet 3 of 5 0079571-0110 Attorney Docket Number

C24	HAILES et al., "A biomimetic approach to the synthesis of rocaglamide based on a photochemical [2+2] cycloaddition of a cinnamate unit to a flavone," <i>Tetrahedron Lett.</i> , 34:5313-5316 (1993).	
C25	HUANG et al., "Tumor necrosis factor modulates transcription of myelin basic protein gene through nuclear factor kappa B in a human oligodendroglioma cell line," Int. J. Dev. Neurosci. 20:289-296 (2002).	
C26	International Search Report for PCT/US2007/012062, mailed Aug. 5, 2008.	
C27	International Search Report for PCT/US2005/010005, mailed Sept. 6, 2005.	
C28	IRURRE et al., "Synthesis and structure of (4R,5R)-à,à,à',à'-2,2-hexaphenyl-4,5-dimethanol-1,3-dioxolane," Tetrahedron: Asymmetry 3:1591-1596 (1992).	ĺ
C29	ITO et al., "Preparation and structural analysis of several new alpha, alpha, alpha'-tetraaryl-1, 3-dioxolane-4, 5-dimethanols (taddols) and taddol analogs, their evaluation as titanium ligands in the enantioselective addition of methyltitanium and diethylzinc reagent," Helvetica Chim. Acta 77:2071-2110 (1994).	
C30	JACOBSEN, "Highly Enantioselective Thiourea-Catalyzed Nitro-Mannich Reactions" Angew. Chem., Int. Ed. 44:466-468 (2005).	
C31	JONES et al, "NF-kB as an integrator of diverse signaling pathways," Cardiovasc. Toxicol. 3:229-254 (2003).	
C32	KALTSCHMIDT et al., "Transcription factor NF-κB is activated in primary neurons by amyloid β peptides and in neurons surrounding early plaques from patients with Alzheimer disease," <i>Proc. Natl. Acad. Sci. USA</i> 94:2642-2647 (1997).	
C33	KRISHNA, et al., "Studies towards the synthesis of FCRR toxin: an expedition entry into 7-5-6 ring systems via [5+2] oxidopyrylium-alkene cycloaddition." <i>Tetrahedron Lett.</i> , 45 (5) (2004).	
C34	LEI et al., "Total synthesis of the ubiquitin-activating enzyme inhibitor (+)-panepophenanthrin," Angew. Chem., Int. Ed. 42:3913-3917 (2003).	
C35	LEGRAND et al., "Synthesis, NMR conformational studies and host-guest behaviour of new (+)-tartaric acid derivatives," Tetrahedron: Asymmetry 16:635-640 (2005).	
C36	LIN et al., "NF-кВ in cancer: a marked target," Semin. Cancer Biol. 13:107-114 (2003).	
C37	LIU et al., "A general protocol for the hydroxylation of C-14 in gibberellins: synthesis of 14β-hydroxy-GA <sub>1</sub> methyl ester," <i>Tetrahedron</i> 54:11637-11650 ( <b>1998</b> ).	j
C38	MATTSON et al., "NF-kappaB in neuronal plasticity and neurodegenerative disorders," <i>J. Clin. Invest.</i> 107:247-254 <b>(2001)</b> .	Ī
C39	McDOUGAL et al., "Asymmetric Morita-Baylis-Hillman Reactions Catalyzed by Chiral Brønsted Acids," <i>J. Am. Chem.</i> Soc. 125:12094-12095 (2003).	İ
C40	NUGENT et al., "Chiral Proton Catalysis: A Catalytic Enantioselective Direct Aza- Henry Reaction," J. Am. Chem. Soc. 126:3418-3419 (2004).	Ī
C41	NUGROHO et al., "Insecticidal Rocaglamide Derivatives from Aglaia elliptica and A. Harmisiana," <i>Phytochemistry</i> 45:1579-1585 ( <b>1997</b> ).	Ī
C42	NUGROHO et al., "An Insecticidal Rocaglamide Derivatives and Related Compounds from Aglaia Odorata (Meliaceae)," <i>Phytochemistry</i> 51:367-376 (1999).	J
C43	ORLOWSKI et al., "NF-kB as a therapeutic target in cancer," Trends Mol. Med. 8:385-389 (2002).	

Examiner	Date	
Signature	Considered	

Complete if Known Substitute for form 1449/PTO Application Number 10/593,502 **INFORMATION DISCLOSURE** Filing Date November 9, 2007 STATEMENT BY APPLICANT First Named Inventor John A. Porco, Jr. Art Unit 1625 (Use as many sheets as necessary) Examiner Name Chandrakumar, N. Sheet 4 of 5 0079571-0110 Attorney Docket Number

C44	PAQUETTE et al., "The α-Hydroxy Ketone (α-Ketol) and Related Rearrangements" Org. React. 62: 477-567 (2003).
C45	PROKSCH et al., "Chemistry and biological activity of rocaglamide derivatives and related compounds in Aglaia species (Meliaceae)," Curr. Org. Chem. 5:923-938 (2001).
C46	QUADRELLI et al., "Intra- and Intermolecular Hydrogen Bonding Effects in Cycloadditions between Nitrile Oxides and 4-Benzoylamino-2-cyclopenten-1-ol and Its Derivatives," Eur J. Org. Chem. 13:2058-2065 (2002).
C47	RASTOGI et al., "Intramolecular excited-state proton-transfer studies on flavones in different environments," Spectrochim. Acta, Part A 57:299-308 (2001).
C48	RENTZEA et al., "α-ketol-umlagerung von myrsinol zum iso-myrsinol und mögliche biogenese des myrsinan-derüstes," <i>Tetrahedron Lett.</i> 23:1785-1788 ( <b>1982</b> ).
C49	ROSHAK et al., "Small-molecule inhibitors of NF-κB for the treatment of inflammatory joint disease," Curr. Opin. Pharmacol. 2:316-321 (2002).
C50	ROSHAL et al., "Flavonols and Crown-Flavonols as Metal Cation Chelators. The Different Nature of Ba <sup>2</sup> and Mg <sup>2+</sup> Complexes" J. Phys. Chem. 102:5907-5914 (1998).
C51	SAMANTA et al., "Evidence of Ground-State Proton Transfer Reaction of 3- Hydroxyflavone in Neutral Alcoholic Solvents" J. Phys. Chem. A 107:6334-6339 (2003).
C52	SEEBACH et al., "On the Ti-TADDOLate-Catalyzed Diels-Alder Addition of 3-Butenoyl-1,3-Oxazolidin-2-One to Cyclopentadiene. General Features of Ti-BINOLate- and Ti-TADDOLate-Mediated Reactions," J. Org. Chem. 60:1788 (1995).
C53	SEEBACH et al., "Mixed β-Peptides: A unique helical secondary structure in solution. Preliminary communication," Helv. Chim. Acta 80:2033-2038 (1997).
C54	SEEBACH et al., "TADDOLs, Their Derivatives, and TADDOL Analogues: Versatile Chiral Auxiliaries," Angew. Chem. Int. Ed. 40:92-138 (2001).
C55	SHOELSON et al., "Inflammation and the IKK beta/I κβ/NF-κβ axis in obesity- and diet-induced insulin resistance," <i>Int. J. Obes. Relat. Metab. Disord.</i> 27 (Supp. 3):S49-S52 ( <b>2003</b> ).
C56	TANAKA et al., "Enantioselective [2 + 2] photodimerization reactions of coumarins in solution," <i>Org. Lett.</i> 7:1501-1503 (2005).
C57	TAYLOR et al., "Asymmetric Catalysis by Chiral Hydrogen-Bond Donors" Angew. Chem., Int. Ed. 45:1520-1543 (2006).
C58	THADANI et al., "Enantioselective Diels-Alder reactions catalyzed by hydrogen bonding," Proc. Natl. Acad. Sci. U.S.A. 101:5846-5850 (2004).
C59	VALEN et al., "Nuclear factor kappa-B and the heart," J. Am. Coll. Cardiol. 38:307-314 (2001).
C60	VAN HEEL et al., "Inflammatory bowel disease is associated with a TNF polymorphism that affects an interaction between the OCT1 and NF-κB transcription factors," Hum. Mol. Genet. 11:1281-1289 (2002).
C61	WESSIG, "Organocatalytic Enantioselective Photoreactions" <i>Angew. Chem., Int. Ed.</i> 45:2168-2171 (2006).

Examiner		Date	
Signature		Considered	
	·		<i>i</i>

Sub	ostitute for form 1449/PTO			Complete if Known		
				Application Number	10/593,502	
l IN	NFORMATION	1 DI	SCLOSURE	Filing Date	November 9, 2007	
l s	TATEMENT E	3Y /	APPLICANT	First Named Inventor	John A. Porco, Jr.	
				Art Unit	1625	
	(Use as many sh	eets as	s necessary)	Examiner Name	Chandrakumar, N.	
Sheet	Sheet 5 of 5		Attorney Docket Number	0079571-0110		

C62	YAMAMOTO et al., "Bronsted Acid Catalysis of Achiral Enamine for Regio- and Enantioselective Nitroso Aldol Synthesis" J. Am. Chem. Soc. 127:1080-1081 (2005).	
C63	YAMAMOTO et al., "Role of the NF-κB Pathway in the Pathogenesis of Human Disease States," Curr. Mol., Med. 1:287-296 (2001).	
C64	YAMAMOTO et al., "Therapeutic potential of inhibition of the NF-κB pathway in the treatment of inflammation and cancer" <i>J. Clin. Invest.</i> 107:135-142 ( <b>2001</b> ).	
C65	YANG et al., "Essential Role of Nuclear Factor κB in the Induction of Eosinophilia in Allergic Airway Inflammation" J. Exp. Med. 188:1739-1750 (1998).	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
Signature	Considered	
	i	1

<sup>1</sup>Applicant's unique citation designation number (optional). 2Applicant is to place a check mark here if English language Translation is attached.